

Informal Sequence Listing

SEQ ID NO:1 >TBC1D1.CDS.A.NT
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SEQ ID NO:2 >TBC1D1.CDS.A.AA

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SEQ ID NO: 3 >TBC1D1.CDS.A.NT.1-1215

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SEQ ID NO: 4 >SEQ ID NO: 3 TRANSLATED

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SEQ ID NO: 6 >TBC1D1.CDS.A.NT.526-550

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SEQ ID NO: 7 >TBC1D1.CDS.A.NT.1-822

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SEQ ID NO:8 >SEQ ID NO:7 TRANSLATED

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SEQ ID NO:10 >SEQ ID NO:9 TRANSLATED

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SEQ ID NO:11 >TBC1D1.cDNA w/ EXON 22 5'UTR

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SEQ ID NO:13 >T885G

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AGGAGCTGCGCGGGAGCCAGAGCCAGCGACCGGGAGCCTGAGTCACGCAGCCGAGCCCACGGG
GACTGA

SEQ ID NO:32 >CDS C AA

MEPITFTARKHLLSNEVSVDGLQLVGLSPVHSLLTTPMLPWVAEVRLSRQSTRKEPVTKQVRLCVSPS
GLRCEPEPGRSQWDPLIYSSIFECKPQRVHKLIHNSHDPSYFACLIKEDAVRQSICYVFKADDQTKVPE
IIISIRQAGKIAQRQEELHCPSEFDDTSKFKFEVLFCRVTVAHKKAPPALIDECEIEKFNVSGSRGSESPR
PNPPHAAPTGSQEPVRRPMRKSFSQPGLRSLAFRKELQDGGLRSSGFFSSFEESDIENHLISGHNIVQPTD
IEENRTMLFTIGQSEVYLISPDTKKIALEKNFKEISFCQSQGIRHVDFGFICRESSGGGFHFVCYVFQCT
NEALVDEIMMTLKQAFTVAAVQQTAKAPAPQLCEGCPQLQSLHLCERIEGMNSSKTKLELQKHLLTNQE
ATIFEEVQKLRPRNEQRENEILIISFLRCLYEEKQKEIHIGEMKQTSMQAAENIGSELPPSATRFRLDMLK
NKAKRSLTESLESILSRGNKARGLQEHISIVDLDSSLSTSLSKEPSVCEKEALPISESSFKLLGSSED
LSSDSESHLPEEPAPLSPQQAFRRRANTLHSFPIECQEPPQPARSGSPGVSKRLMRYHSVSTETPHERNIS
YRNALRKKLHSSSSVPNFLKFLAPVDENNTSDFMNTKRDFFESKANHLDGSGGTPVKTRRHWSRQQIFLRVA
TPQKACDSSSRYEDYSELGELPPRSLEPVCEDGPFGPPPPEEKRTSRELRELWQKAILQQILLRMEKEN
QKLQASENDLLNKLKLDYEEITPCLKEVTTVWEMLSTPGRSKIKFDMEKMHSAVGQGVPRHRGEIWKF
LAEQFHLKHQFPSKQPKDVPYKELLKQLTSQQHAILIDLGRTFPTHYPYFSAQLGAGQLSLYNILKAYSL
DQEVGYCQGLSFVAGILLHMSEEAFKMLKFLMDMGLRKQYRPDMIIQIOMYQLSRLLHDYHRDLYNH
LEEHEIGPSLYAAPWFLTMFASQFPLGFVARVFDIMIFLQGTEVIFKVALSLLGSHKPLILQHENLETIVDF
IKSTLPNLGLVQMEKTINQVFEMDIAKQLQAYEVEYHVLQEELIDSSPLSDNORMDKLETKNSLRQNL
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D*

SEQ ID NO:33 >EXON 1 NT

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TCTCGGTGGATTGGCTGCAGCTGGGGCTCCCTGCCTGTGCAATTCCCTGACCAACATGCCATGCTG
CCCTGGGTTGTGGCTGAGGTGCGAAGACTCAGCAGGCAGTCCACCAGAAAGGAACCTGTAACCAAGCAAGT
CCGGCTTGCCTTACCCCTCTGAGACTGAGATGTGAACCTGAGCCAGGGAGAAGTCAACAGTGGGATCCCC
TGATCTATTCCAGCATTTGAGTGAAGCCTCAGCGTGTTCACAAACTGATTACAACAGTCATGACCCA

AGTTACTTGCTTGTCTGATTAAGGAAGACGCTGCCACCGCAGAGTATCTGCTATGTGTTCAAAGCCGA
TGATCAAACAAAAA

SEQ ID NO:34 >EXON 1 AA
MEPITFTARKHLLSNEVSVDGLQLVGLPVHSLLTTPMLPWVVAEVRLSRQSTRKEPVTKQVRLCVSPS
GLRCEPEPGRSQWDPLIYSSIFECKPQRVHKLIHNSHDPSYFACLIKEDAVHRQSICYVFKADDQTK

SEQ ID NO:35 >EXON 3.1 NT
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AGGCTCCGCCGCCCTGATCGACGAGTCATCGAGAAGTTCAATCACGTACGGCAGCCGGGGTCCGAG
AGCCCCCGCCCAACCCGCCCATGCCGCCACAGGGAGCCAGGGAGCCTGTGCGCAGGCCATGCGCAA
GTCCCTCTCCCAGCCGGCTCGCTCGCTGGCCTTAGGAAGGAGCTGCAGGATGGGGGCTCCGAAGCA
GCGGCTCTCAGCTCCTCGAGGAGAGCAGATTGAGAACACCTCATTAGCGGACACAATATTGTGCAG
CCCACAGATATCGAGGAAAATCGAACTATGCTCTTCAGC

SEQ ID NO:36 >EXON 3.1 AA
VPEIISIIRQAGKIAQRQEELHCPSEFDTSKKFEVLFCGRVTVAHKAPPALIDEIEKFNFNVSGSRGSE
SPRPNPPHAAPTGSQEPRVRRPMRKSFSQPGLRSLAFRKELQDGGLRSSGFFSSFEESDIENHLISGHNIVQ
PTDIEENRTMLFT

SEQ ID NO:37 >EXON 4 NT
ATTGGCCAGTCTGAAGTTACCTCATCAGTCCTGACACCAAAAAAATGCATTGGAGAAAATTTAAGGA
GATATCCTTTGCTCTCAG

SEQ ID NO:38 >EXON 4 AA
IGQSEVYLISPDTKKIALEKNFKEISFCSQ

SEQ ID NO:39 >EXON 5 NT
GGCATCAGACACGTGGACCACCTTGGTTTATCTGTCGGAGTCTCCGGAGGTGGCGCTTCATTGTT
CTGTTACGTGTTAGTCAGTCACAAATGAGGCTCTG

SEQ ID NO:40 >EXON 5 AA
GIRHVDHFGFICRESSGGGFHFVCYVFQCTNEAL

SEQ ID NO:41 >EXON 6 NT
GTTGATGAAATTATGATGACCTGAAACAGGCCTTCACGGTGGCCGAGTCAGCACAGCTAAGGC
AGCCCAGCTGTGAGGGCTGCCCTGCAAAGCCTGCACAAGCTCTGAGAGGATAGAGG

SEQ ID NO:42 >EXON 6 AA
VDEIMMTLKQAFTVAAVQQTAKAPAQLCLEGCPQLSHKLCEIE

SEQ ID NO:43 >EXON 7 NT
GAATGAATTCTTCCAAAACAAAACAGAACACTGCAAAAGCACCTGACGACATTAACCAATCAGGAGCAGGCG
ACTATTTGAAGAGGTTCAAG

SEQ ID NO:44 >EXON 7 AA
MNSSKTKLELQKHLTLTNQEQTIFEEVQ

SEQ ID NO:45 >EXON 8 NT
AAATTGAGACCGAGAAATGAGCAGCGAGAGAATGAATTGATTATTCCTTGAGATGTTATATGAAGA
GAAACAGAAAGAACACATCCATATTGGGGAGATGAAGCAG

SEQ ID NO:46 >EXON 8 AA
KLRPRNEQRENELIISFLRCLYEEKQKEHIHIGEMKQ

SEQ ID NO:47 >EXON 9 NT

ACATCGCAGATGGCAGCAGAGAATATTGGAAGTGAATTACCACCCAGTGCCACTCGATTTAGGCTAGATAT
GCTGAAAACAAAGCAAAGAGATCTTAACAGAGTCTTAGAAAGTATTTGTCCCGG

SEQ ID NO:48 >EXON 9 AA
TSQMAAENIGSELPPSATRFRLDMLKNKAKRSILTESLESILSR

SEQ ID NO:49 >EXON 10 NT
GGTAATAAAGCCAGGCCCTGCAGGAACACTCCATCAGTGTGGATCTGGATAGCTCCCTGTCTAGTACATT
AAAGTAACACCAGAAA

SEQ ID NO:50 >EXON 10 AA
GNKARGLQEHSISVLDSSLSSTLSNTSK

SEQ ID NO:51 >EXON 11 NT
GAGCCATCTGTGTGAAAAGGAGGCCTTGCCTGCATCTCTGAGAGCTCCTTAAGCTCCTCGGCTCTCGGA
GGACCTGTCCAGTGAUTCGGAGAGTCATCTCCCAGAACAGAGCCAGCTCCGCTGTCGCCCCAGCAGGCCCTCA
GGAGGCCAGCAAACACCCCTGAGTCACTCCCCATCGAATGCCAGGAACCTCCACAACCTGCCGGGGGTCC
CCGGGGGTTTCGCAAAGGAAACTTATGAGGTATCACTCAGTGAGCACAGAGACGCCTCATGAACGAAA

SEQ ID NO:52 >EXON 11 AA
EPSVCEKEALPISESSFKLLGSSEDLSSDSESHLPEEPAPLSPQQAFRRRANTLSHFPIECQEPPQPARGS
PGVSQRKLMRYHSVSTETPHER

SEQ ID NO:53 >EXON 11a NT
gagccatctgtgtgaaaaggaggccttgcctgcacatctctgagagctccttaagctcctcggtcctcgga
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ggaggcgagcaaacaccctgagtcactccccatcgaaatgccaggaacctccacaacctgccccgggggtcc
ccggggggttcgcaaaggaaacttatgag

SEQ ID NO:54 >EXON 11a AA
EPSVCEKEALPISESSFKLLGSSEDLSSDSESHLPEEPAPLSPQQAFRRRANTLSHFPIECQEPPQPARGS
PGVSQRKLM

SEQ ID NO:55 >EXON 33 NT
tgtggatccttcacctgtgggtgagtctaaggcacccggccaggtcagtcttcagctcctgtctccaccc
gtcttaaccctccgcctcctcgccaaacttttaagtacctaaaacataattccagtgagaaacaag
ggaatgtgtgccaagag

SEQ ID NO:56 >EXON 33 AA
VDPSPVGESKHRPGQSSAPAPPRLNPSASSPNFFKYLKHNSSGEQSGNAVPK

SEQ ID NO:57 >EXON 34 NT
catctcattaccgtaatgccctgcggaaaaacttcattcttcctgtgcacaaatttctaaaatttc
tggctcctgttagatggaaaataaacacacctgtatggaaacacaaaaag

SEQ ID NO:58 >EXON 34 AA
ISYRNALRKKLHSSSSVPNFLKFLAPVDENNTSDFMNTK

SEQ ID NO:59 >EXON 12 NT
GGACTTGAATCAAAGCAAACCATCTGGTGATTCTGGTGGGACTCCTGTGAAGACCCGGAGGCATTCT
GGAGGCAGCAGATATTCCCTCGAGTAGCCACCCCGAGAAGCGTGCATTCTCAGCAGATATGAAG

SEQ ID NO:60 >EXON 12 AA
DFESKANHLGDSGGTPVKTRRHWRQQIFLRVATPQKACDSSSRYE

SEQ ID NO:61 >EXON 36 NT
aacctcactgtggatcgccatcggtggcctgtactgaag

SEQ ID NO:62 >EXON 36 AA
PHCGSPSLACTE

SEQ ID NO:63 >EXON 13 NT
ATTATTTCAGAGCTGGGAGAGCTCCCCACGATCTCCTTACAAGACAGTTGTGAAGATGGGCCCTTGGC
CCCCCACCAAGAGAAAAGAAAAGGACATCTCGTGAGCTCCGAGAGCTGTGGCAAAGGCTATTCTCAACA
GATACTGCTGCTTAGAATGGAGAAGGAAAATCAGAAGCTCCAAG

SEQ ID NO:64 >EXON 13 AA
YSELGELPPRSPLEPVCEDGPFGPPPEEKRTSRELRELWQKAILQQILLRMEKENQKLQ

SEQ ID NO:65 >EXON 14 NT
CCTCTGAAAATGATTGCTGAACAAGCGCCTGAAGCTCGATTATGAAGAAATTACTCCCTGTCTAAAGAA
GTAACACTACAGTGTGGAAAAGATGCTTAGCACTCCAGGAAGATCAAAATTAAGTTGACATGGAAAAAT
GCACTCGGCTTGGGCAAG

SEQ ID NO:66 >EXON 14 AA
SENDLLNKRLKLDYEEITPCLKEVTTVWEKMLSTPGRSKIKFDMEKMHSAVGQ

SEQ ID NO:67 >EXON 15 NT
GTGTGCCACGTCATCACCGAGGTGAAATCTGGAAATTCTAGCTGAGCAATTCCACCTTAAACACCAGTT
CCCAGCAAACAGCAGCAAAGGATGTGCCATACAAAGAACTCTTAAAGCAGCTGACTCCAGCAGCATGC
GATTCTTATTGACCTTG

SEQ ID NO:68 >EXON 15 AA
VPRHHRGEIWKFIAEQFHLKHQFPSKQQPKDVPYKELLKQLTSQQHAILIDL

SEQ ID NO:69 >EXON 16 NT
GGCGAACCTTCCTACACACCCATACTTCTCTGCCAGCTGGAGCAGGACAGCTATCGCTTACAACATT
TTGAAGGCCTACTCACTCTAGACCAGGAAGTGGATATTCCAAGGTCTCAGCTTGATGTTGACATGGGCTGCGGA
GCTTCTCATATGAGTGAGGAAGAGGCGTTAAATGCTCAAGTTCTGATGTTGACATGGGCTGCGGA
AACAGTATCGGCCAGACATGATTATTTACAG

SEQ ID NO:70 >EXON 16 AA
RTFPPTHPYFSAQLGAGQLSLYNILKAYSLLDQEVGYCQGLSFVAGILLHMSEEEAFKMLKFLMFDMGLRK
QYRPDMIILQ

SEQ ID NO:71 >EXON 17 NT
ATCCAGATGTACCGCTCTGGAGGTGCTCATGATTACACAGAGACCTCTACAATCACCTGGAGGAGCA
CGAGATCGGCCCTCAGCCTCTACGCTGCCCTGGTCCTCACCATGTTGCCTCACAGTCCCGCTGGAT
TCGTAGGCCAGAGCTTTG

SEQ ID NO:72 >EXON 17 AA
IQMYQLSRLLHDYHRDLYNHLEEHEIGPSLYAAPWFLTMFASQFPLGFVARVF

SEQ ID NO:73 >EXON 18 NT
ATATGATTTCTTCAGGAACAGAGGTCAATTAAAGTGGCTTAAGTCTGTTGGGAAGCCATAAGCCC
TTGATTCTGCAGCATGAAAACCTAGAAACCATAGTTGACTTTATAAAAGCACGCTACCCAACCTGGCTT
GGTACAGATGGAAAAGACCATCAATCAG

SEQ ID NO:74 >EXON 18 AA
MIFLQGTEVIFKVALSLLGSHKPLILQHENLETIVDFIKSTLPNLGLVQMEKTINQ

SEQ ID NO:75 >EXON 19 NT

GTATTTGAAATGGACATCGCTAACAGTTACAAGCTTATGAAGTTGAGTACCACGTCTTCAGAAGAAACT
TATCGATTCCCTCCTCTCAGTGACAACCAAAGAATGGATAAATTAGAGAAAACCAACAGCAGCTACGCA
AACAGAACCTTGACCTCCTGAACAGTTGCAG

SEQ ID NO: 76 >EXON 19 AA

VFEMDIAKQLQAYEVEYHVLQEELIDSSPLSDNQRMDKLEKTNSSLRKQNLDLLEQLQ

SEQ ID NO: 77 >EXON 20 NT

GTGGCAATGGTAGGATCCAAAGCCTTGAGGCCACCATTGAGAAGCTCCTGAGCAGTGAGAGCAAGCTGAA
GCAGGCCATGCTTACCTAGAACCTGGAGCGCTGGCCCTGCTGCAGACGGTGGAGGAGCTGCGGCGGCGGA
GCGCAGAGCCCAGCGACCGGGAGCCTGAGTGACCCAGCCCCAGGGCGACTGACAGCTCTGCAGG
AGAGATTGCAACACCATCCCACACTGTCCAGGCCTTAAC TGAGAGGGACAGAAGACGCTGGAAGGAGAGAA
GGAAGCGGGAAAGTGTGCTTCTCAGGGAGGAACCGGCTGCCAGCAAGTAGATTCTTACGAACCTCAACTT
GCAATTCAAGGGGGATGTCCCAGTGTGTTTTAGATACTAAATCGTCCCTCTCCAGTCCT
GATTACTGTACACAGTAGCTTAGATGGCGTGGACGTGAATAATGCAACTTATGTTT

SEQ ID NO: 78 >EXON 20 AA

VANGRIQSLEATIEKLLSSESKLQAMLTLELERSALLQTVEELRRRSAEPSDREPECTQPEPTGD*

SEQ ID NO: 79 >EXON 22 ALT 5' UTR #1

GCTCTGGTGCCTGCCACCGTCCGCCGGTGCCTGCTGCCGCCGCCGGGACCTGCTGTGTCCTCAGCT
GGGTGGAGAAGAGGGGGCGCGAGCCGAGGGGAGCCCCCTCCCGTCCCCCGCGGCGGGAGAGCGCAG
CCAGCGGGTGCAGTGGACTCCCCGCCAGGCCGTCCCCAGGATGCCCAAGCACCTGCGCGTCCC
GGCCCGGCCCCGGCTCTGAGCGGCCGGCACAG

SEQ ID NO: 80 >EXON 23 ALT 5' UTR #2

ACTTCCCTCTAGAGCAATGGCACCTGCAGGTAAAGAGCTGAGTGGTAGCTTACTTCTGCACTCTGCAC
TGGGCCAGTATGGATCTCCCAACCACATTGACAGTCTTCATCCTGCCATACCAG

SEQ ID NO: 81 >CDS D NT

ATGGAACCAATAACATTACAGCAAGGAAACATCTGTTCTAACGAGGTCTGGTGGATTTGGCCTGCA
GCTGGGGCTCCCTGCCTGTCATTCCCTGACCACCATGCCATGCTGCCCTGGGTTGCTGAGGTGCG
GAAGACTCAGCAGGCAGTCCACCAAGAAAGAACCTGTAACCAAGCAAGTCCGGCTTGCTGTTCACCCCT
GGACTGAGATGTGAACCTGAGCCAGGGAGAGTCAACAGTGGATCCCCCTGATCTATTCCAGCATCTTG
GTGCAAGCCTCAGCGTGTTCACAAACTGATTCAACACAGTCATGACCCAGTTACTTGCTGTTGATTA
AGGAAGACGCTGTCACCGGAGAGTATCTGCTATGTGTTCAAAGCCGATGATCAAACAAAAGTGCCTGAG
ATCATCAGCTCCATCCGTCAAGGGGGAGATCGCCCGCAGGAGGAGCTGCACTGCCGTCCAGTTG
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CTGTCCAGTGACTCGGAGAGTCATCTCCAGAAGAGCCAGCTCCGCTGTGCCCCAGCAGGCCCTCAG
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AAGCTGAAGCAGGCCATGCTTACCTAGAACTGGAGCGTGGCCCTGCTGCAGACGGTGGAGGAGCTGCG
GGGGCGGAGCGCAGAGCCAGCAGCGACGGAGCTGAGTGCACGCAGCCCCAGGCCACGGCGACTGA

SEQ ID NO: 82 >CDS D AA

MEPITFTARKHLLSNEVSVDFFGLQLVGSPLPVHSLLTTPMLPWVAEVRRLSRQSTRKEPVTKQVRLCVSPSGLRCEPEPGRSQQWDPLIYSSIFECKPQRVHKLIHNSHDPSYFACLIKEDAVHRQSICYVFKADDQTKVPEIISSIRQAGKIAQRQEELHCPSEFDTSKKFEVLFCGRVTVAHKKAPPALIDECEKFNVHSRGSESPPNPPHAAPTGSQEPVRRPMRKSFSQPGRLSLAFRKELQDGGLRSSGFFSSFEESDIENHLISGHNIVQPTDIEENRTMLFTIGQSEVYLISPDTKKIALEKNFEISFCSQGIRHVDHFGFICRESSGGGFHFVCYVFQCTNEALVDEIMMTLKQAFTVAAVQQTAKAPAPQLCEGCPQLQSLHKLCERIEGMNSSTKLELQKHLLTNQEQATIFEEVQKLRPRNEQRENELIISFLRCLYEEKQKEHIHIGEMKQTSQMAENIGSELPPSATFRFLDMLKNAKRSITESLESILSRGNKARGLQEHSISVLDSSLSSTLNTSKEPSVCEKEALPISESSFKLLGSSEDLSSDSESHLPPEEPAPLSPQQAFRRRANTLSHFPIECQEPPQPARSGPGVSQRKLMRYHSVSTETPHERKDFESKANHLDGDSGGTPVKTRRHWRQQIFLRVATPQKACDSSSRYEETHCCSPSLACTEDYSELGELPPRSPLEPVCEDGPFGPPPPEEKKRTSRELRELWQKAILQQILLRMEKENQKLQASENDLLNKRLKLDYEEITPCCLKEVTTVWEKMLSTPGRSKIKFDMEKMHSAVGQGVPRHRGEIWKFLAEQFHLLKHQFPSKQPKDVPYKELLKQLTSQQHAILIDLGRTFPTHYPFSAQLGAGQLSLYNILKAYSLLDQEVGYCQGLSFVAGILLLHMSEEAAFKMLKFLMFDMGLRKQYRPDMIILQIQMYQLSRLLHDYHRDLYNHLEEHEIGPSLYAAPWFLLTMFASQFPLGFVARVFDMIFLQGTTEVIFKVALSLLGSHKPLILQHENLETIVDFIKSTLPNLGLVQMEKTINQVFEMDIAKQLQAYEVEYHVLQEELIDSSPLSDNQRMKDLEKTNSTLRQNLQDLEQLQVANGRIQSLEATIEKLLSSESKLKQAMLTLELERSALLQTVEELRRRSAEPSDREPECTQPEPTGD*

SEQ ID NO: 83 >CDS E NT

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GAAGACTCAGCAGGCAGTCCACCAGAAAGAACCTGTAACCAAGCAAGTCCGGCTTGCGTTCACCTCT
GGACTGAGATGTGAACCTGAGCCAGGGAGAAGTCAACAGTGGGATCCCTGATCTATTCCAGCATCTTGA
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ATCATCAGCTCATCCGTCAAGCGGGGAAGATGCCCGGCAGGAGGAGCTGCACTGCCGTCCAGTTGAG
CGACACGTTTCCAAGAAGTTCAGGTTGCTCTTCTGCCGCCGCTGACGGTGGCGACAAGAAGGCTCCGC
CGGCCCTGATCGACGAGTGCATCGAGAAAGTTCAATCACGTCAGCGCAGCCGGGGTCCGAGAGCCCCCGC
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SEQ ID NO: 84 > CDS E AA
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SEQ ID NO: 85 >CDS F NT

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SEQ ID NO: 87 >CDS G NT

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SEQ ID NO:88 >CDS G AA

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SEQ ID NO:89 >CDS H NT

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SEQ ID NO: 90 >CDS H AA
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SEQ ID NO:91 >CDS I NT

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SEQ ID NO:92 >CDS I AA

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SEQ ID NO: 93 > CDS J NT
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SEQ ID NO: 94 >CDS J AA

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SEQ ID NO: 95 >CDS K NT

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SEQ ID NO: 96 >CDS K AA

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SEQ ID NO: 97 >CDS L NT

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SEQ ID NO: 98 > CDS L AA

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SEQ ID NO:99 >CDS M NT

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SEQ ID NO:100 >CDS M AA

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SEQ ID NO:101 >CDS N NT

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SEQ ID NO:102 >CDS N AA

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SEQ ID NO:103 >CDS O NT

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SEQ ID NO:105 >CDS P NT
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SEQ ID NO:106 >CDS P AA

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